

# Zhaoyang Zhang

## List of Publications by Citations

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294  
papers

5,030  
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37  
h-index

61  
g-index

408  
ext. papers

6,606  
ext. citations

5.8  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
294	. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 3447-3461	6.9	297
293	Non-Orthogonal Multiple Access With Cooperative Full-Duplex Relaying. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 2478-2481	3.8	223
292	Wireless Energy and Information Transfer Tradeoff for Limited-Feedback Multiantenna Systems With Energy Beamforming. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 407-412	6.8	191
291	Diffusion Sparse Least-Mean Squares Over Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4480-4485	4.8	162
290	On cognitive radio networks with opportunistic power control strategies in fading channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 2752-2761	9.6	151
289	Diffusion Information Theoretic Learning for Distributed Estimation Over Network. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 4011-4024	4.8	140
288	Channel Estimation for RIS-Empowered Multi-User MISO Wireless Communications. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 4144-4157	6.9	139
287	Wireless Information and Power Transfer in Relay Systems With Multiple Antennas and Interference. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 1400-1418	6.9	115
286	Delay-Constrained Hybrid Computation Offloading With Cloud and Fog Computing. <i>IEEE Access</i> , <b>2017</b> , 5, 21355-21367	3.5	96
285	Wireless-Powered Communications: Performance Analysis and Optimization. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 5178-5190	6.9	92
284	Exploiting Multiple-Antenna Techniques for Non-Orthogonal Multiple Access. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2017</b> , 35, 2207-2220	14.2	84
283	Fully Non-Orthogonal Communication for Massive Access. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 1717-1731	6.9	76
282	Multi-Antenna Wireless Legitimate Surveillance Systems: Design and Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 4585-4599	9.6	70
281	. <i>IEEE Access</i> , <b>2017</b> , 5, 6399-6410	3.5	67
280	. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 4879-4893	6.9	64
279	Multi-Hop RIS-Empowered Terahertz Communications: A DRL-Based Hybrid Beamforming Design. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 1663-1677	14.2	63
278	On the Secrecy Capacity of Fading Wireless Channel with Multiple Eavesdroppers <b>2007</b> ,		62

277	Unsupervised Learning for Passive Beamforming. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 1052-1056	3.8	60
276	Exploiting Inter-User Interference for Secure Massive Non-Orthogonal Multiple Access. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2018</b> , 36, 788-801	14.2	56
275	Proactive Eavesdropping in Relaying Systems. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 917-921	3.2	52
274	Deep Learning for Spectrum Sensing. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 1727-1730	5.9	52
273	Sum Rate Optimization for Two Way Communications With Intelligent Reflecting Surface. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 1090-1094	3.8	52
272	Full-Duplex Massive MIMO Relaying Systems With Low-Resolution ADCs. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 5033-5047	9.6	50
271	Outage Probability of Dual-Hop Multiple Antenna AF Relaying Systems with Interference. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 108-119	6.9	49
270	A distributed relay selection method for relay assisted Device-to-Device communication system <b>2012</b> ,		48
269	Location Information Aided Multiple Intelligent Reflecting Surface Systems. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 7948-7962	6.9	47
268	Cell-Free Massive MIMO Systems With Low Resolution ADCs. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 6844-6857	6.9	45
267	Grant-Free Rateless Multiple Access: A Novel Massive Access Scheme for Internet of Things. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 2019-2022	3.8	45
266	Symbol Detection of Ambient Backscatter Systems With Manchester Coding. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 4028-4038	9.6	44
265	Distributed cache replacement for caching-enable base stations in cellular networks <b>2014</b> ,		42
264	Power Control for Sum-Rate Maximization on Interference Channels Under Sum Power Constraint. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 593-609	6.8	41
263	Integration of Energy, Computation and Communication in 6G Cellular Internet of Things. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 1333-1337	3.8	41
262	Outage Probability of Dual-Hop Multiple Antenna AF Systems with Linear Processing in the Presence of Co-Channel Interference. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 2308-2321	9.6	41
261	Ergodic Capacity Comparison of Different Relay Precoding Schemes in Dual-Hop AF Systems With Co-Channel Interference. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 2314-2328	6.9	41
260	Optimization and Analysis of Wireless Powered Multi-Antenna Cooperative Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 3267-3281	9.6	38

259	Programmable Metasurface-Based Multicast Systems: Design and Analysis. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 1763-1776	14.2	38
258	Robust Design for Intelligent Reflecting Surfaces Assisted MISO Systems. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2353-2357	3.8	37
257	Secrecy Performance of Wirelessly Powered Wiretap Channels. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 3858-3871	6.9	37
256	A Unified Design of Massive Access for Cellular Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 3934-3947	10.7	37
255	Optimum Wirelessly Powered Relaying. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 1-1	3.2	36
254	Multipair Massive MIMO Relaying Systems With One-Bit ADCs and DACs. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 2984-2997	4.8	34
253	On distributed antenna systems with limited feedback precoding: Opportunities and challenges. <i>IEEE Wireless Communications</i> , <b>2010</b> , 17, 80-88	13.4	34
252	Modeling Epidemics Spreading on Social Contact Networks. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2015</b> , 3, 410-419	4.1	33
251	Power-Aware Cooperative Relay Selection Strategies in Wireless Ad Hoc Networks <b>2006</b> ,		31
250	A Split-Reduced Successive Cancellation List Decoder for Polar Codes. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 292-302	14.2	30
249	Cluster Grouping and Power Control For Angle-Domain MmWave MIMO NOMA Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 1167-1180	7.5	30
248	Cooperative ARQ in Wireless Networks: Protocols Description and Performance Analysis <b>2006</b> ,		30
247	Performance Evaluation of Channel Decoding with Deep Neural Networks <b>2018</b> ,		29
246	On the achievable rate region of gaussian cognitive multiple access channel. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 384-386	3.8	29
245	One-Bit Quantized Massive MIMO Detection Based on Variational Approximate Message Passing. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 2358-2373	4.8	28
244	Efficient ARQ protocols for exploiting cooperative relaying in wireless sensor networks. <i>Computer Communications</i> , <b>2007</b> , 30, 2765-2773	5.1	28
243	Power Beacon Assisted Wiretap Channels With Jamming. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 8353-8367	9.6	28
242	Design, Analysis, and Optimization of a Large Intelligent Reflecting Surface-Aided B5G Cellular Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 8902-8916	10.7	27

241	Design of Non-Orthogonal BeamSpace Multiple Access for Cellular Internet-of-Things. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 538-552	7.5	25
240	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 1730-1740	6.8	25
239	On the Capacity of Wireless Powered Communication Systems Over Rician Fading Channels. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 404-417	6.9	24
238	Closed-Form Delay-Optimal Computation Offloading in Mobile Edge Computing Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 4653-4667	9.6	24
237	Optimal Distributed Subchannel, Rate and Power Allocation Algorithm in OFDM-Based Two-Tier Femtocell Networks <b>2010</b> ,		24
236	Performance of downlink massive MIMO in rician fading channels with ZF precoder <b>2015</b> ,		23
235	Joint Network-Channel Coding with Rateless Code over Multiple Access Relay System. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 320-332	9.6	23
234	Cluster-based Epidemic Control Through Smartphone-based Body Area Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2015</b> , 26, 681-690	3.7	22
233	Adaptive Mode Selection for Multiuser MIMO Downlink Employing Rateless Codes with QoS Provisioning. <i>IEEE Transactions on Wireless Communications</i> , <b>2012</b> , 11, 790-799	9.6	22
232	Wireless Powered Dual-Hop Multi-Antenna Relaying Systems: Impact of CSI and Antenna Correlation. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 2505-2519	9.6	21
231	Exploiting Channel Angular Domain Information for Precoder Design in Distributed Antenna Systems. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 5791-5801	4.8	21
230	Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 1959-1970	10.7	21
229	Learn to Sense: A Meta-Learning-Based Sensing and Fusion Framework for Wireless Sensor Networks. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 8215-8227	10.7	19
228	Multipair Two-Way Half-Duplex DF Relaying With Massive Arrays and Imperfect CSI. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 3269-3283	9.6	18
227	UCA-based orbital angular momentum radio beam generation and reception under different array configurations <b>2014</b> ,		18
226	Distributed resource allocation for D2D communication underlying cellular networks <b>2013</b> ,		17
225	Effective Relay Selection for Underwater Cooperative Acoustic Networks <b>2013</b> ,		17
224	Prediction-Based Spectrum Aggregation with Hardware Limitation in Cognitive Radio Networks <b>2010</b> ,		17

223	Energy Efficient Joint Source and Channel Sensing in Cognitive Radio Sensor Networks <b>2011</b> ,		17
222	Joint Channel Estimation and Signal Recovery for RIS-Empowered Multi-User Communications. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1	6.9	17
221	Joint Active User Detection and Channel Estimation in Massive Access Systems Exploiting Reed-Muller Sequences. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 739-752	7.5	16
220	Distributed Jointly Sparse Multitask Learning Over Networks. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 151-164	10.2	16
219	Performance of Rayleigh-Product MIMO Channels with Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 2270-2281	9.6	16
218	Gossip-Based Information Spreading in Mobile Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 5918-5928	9.6	16
217	Wireless information and energy transfer in interference aware massive MIMO systems <b>2014</b> ,		16
216	Distributed Spectrum-Aware Clustering in Cognitive Radio Sensor Networks <b>2011</b> ,		16
215	Outage-Constrained Robust Design for Sustainable B5G Cellular Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 5780-5790	9.6	16
214	An Orbital Angular Momentum-Based In-Band Full-Duplex Communication System and Its Mode Selection. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 1183-1186	3.8	15
213	Universal Filtered Multi-Carrier Transmission With Adaptive Active Interference Cancellation. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 2554-2567	6.9	15
212	Distributed Packet Forwarding and Caching Based on Stochastic Network Utility Maximization. <i>IEEE/ACM Transactions on Networking</i> , <b>2018</b> , 26, 1264-1277	3.8	15
211	Nonlinear Precoding for Multipair Relay Networks With One-Bit ADCs and DACs. <i>IEEE Signal Processing Letters</i> , <b>2018</b> , 25, 303-307	3.2	15
210	Effective epidemic control and source tracing through mobile social sensing over WBANs <b>2013</b> ,		15
209	Energy-efficient spectrum-aware clustering for cognitive radio sensor networks. <i>Science Bulletin</i> , <b>2012</b> , 57, 3731-3739		15
208	Maximum-Eigenvalue Detector for Multiple Antenna Ambient Backscatter Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 12411-12415	6.8	14
207	Integrated Sensing, Computation and Communication in B5G Cellular Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 332-344	9.6	14
206	Ambient Backscatter Communication Systems With MFSK Modulation. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 2553-2564	9.6	13

205	Physical layer security for massive access in cellular Internet of Things. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3.4	13
204	Cooperative Activity Detection: Sourced and Unsourced Massive Random Access Paradigms. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 6578-6593	4.8	13
203	RIS-Assisted Multi-User MISO Communications Exploiting Statistical CSI. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	13
202	Virtual-MIMO-Boosted Information Propagation on Highways. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 1420-1431	9.6	12
201	A Column Generation Approach for Spectrum Allocation in Cognitive Wireless Mesh Network <b>2008</b> ,		12
200	Byzantine Attacker Identification in Collaborative Spectrum Sensing: A Robust Defense Framework. <i>IEEE Transactions on Mobile Computing</i> , <b>2019</b> , 18, 1992-2004	4.6	12
199	Energy Beamformer and Time Split Design for Wireless Powered Two-Way Relaying Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 3723-3736	9.6	11
198	On the Sum Rate of MIMO Nakagami-m Fading Channels with Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , <b>2012</b> , 11, 3651-3659	9.6	11
197	Optimal Partner Selection Strategies in Wireless Cooperative Networks with Fixed and Variable Transmit Power <b>2007</b> ,		11
196	Joint Multi-User Communication and Sensing Exploiting Both Signal and Environment Sparsity. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2021</b> , 1-1	7.5	11
195	Progressive Bit-Flipping Decoding of Polar Codes: A Critical-Set Based Tree Search Approach. <i>IEEE Access</i> , <b>2018</b> , 6, 57738-57750	3.5	11
194	Video Surveillance on Mobile Edge Networks: A Reinforcement-Learning-Based Approach. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 4746-4760	10.7	10
193	Joint User Pairing and Power Allocation Design for Heavy Loaded Full-Duplex Small Cell Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8989-8993	6.8	10
192	Sensing error aware delay-optimal channel allocation scheme for cognitive radio networks. <i>Telecommunication Systems</i> , <b>2013</b> , 52, 1895-1904	2.3	10
191	Joint Network-Channel Coding with Rateless Code in Two-Way Relay Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 3158-3169	9.6	10
190	Multi-pair two-way AF relaying systems with massive arrays and imperfect CSI <b>2016</b> ,		10
189	Simplified successive-cancellation decoding using information set reselection for polar codes with arbitrary blocklength. <i>IET Communications</i> , <b>2015</b> , 9, 1380-1387	1.3	9
188	Delay-aware massive random access for machine-type communications via hierarchical stochastic learning <b>2017</b> ,		9

187	Performance of ZF precoder in downlink massive MIMO with non-uniform user distribution. <i>Journal of Communications and Networks</i> , <b>2016</b> , 18, 688-698	4.1	9
186	Opportunistic forwarding in energy harvesting mobile delay tolerant networks <b>2014</b> ,		9
185	Deep Reinforcement Learning for Joint Beamwidth and Power Optimization in mmWave Systems. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2201-2205	3.8	9
184	Robust Design for IRS-Aided Communication Systems With User Location Uncertainty. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 63-67	5.9	9
183	Content Caching Oriented Popularity Prediction: A Weighted Clustering Approach. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 623-636	9.6	9
182	Rate Analysis and ADC Bits Allocation for Cell-Free Massive MIMO Systems with Low Resolution ADCs <b>2018</b> ,		9
181	Terahertz Wireless Communications for 2030 and Beyond: A Cutting-Edge Frontier. <i>IEEE Communications Magazine</i> , <b>2021</b> , 59, 66-72	9.1	9
180	Spectral Efficiency of Multipair Massive MIMO Two-Way Relaying With Imperfect CSI. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 6593-6607	6.8	8
179	Millimeter Wave Communication With Active Ambient Perception. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 2751-2764	9.6	8
178	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 5512-5524	6.8	8
177	Performance of Proactive Eavesdropping in Dual-Hop Relaying Systems <b>2017</b> ,		8
176	Reed-Muller Sequences for 5G Grant-Free Massive Access <b>2017</b> ,		8
175	Initial spectrum access control with QoS protection for active users in cognitive wireless networks. <i>International Journal of Communication Systems</i> , <b>2012</b> , 25, 636-651	1.7	8
174	On the Capacity Region of Cognitive Multiple Access over White Space Channels. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2013</b> , 31, 2517-2527	14.2	8
173	Weight Distributions of Regular Low-Density Parity-Check Codes Over Finite Fields. <i>IEEE Transactions on Information Theory</i> , <b>2011</b> , 57, 7507-7521	2.8	8
172	Study on Network Selection for Next-Generation Heterogeneous Wireless Networks <b>2006</b> ,		8
171	An Indoor mmWave Joint Radar and Communication System with Active Channel Perception <b>2018</b> ,		8
170	A Low-Complexity Multiuser Adaptive Modulation Scheme for Massive MIMO Systems. <i>IEEE Signal Processing Letters</i> , <b>2016</b> , 23, 1464-1468	3.2	7



169	Distributed Active Learning. <i>IEEE Access</i> , <b>2016</b> , 4, 2572-2579	3.5	7
168	Exploiting large-scale MIMO techniques for physical layer security with imperfect channel state information <b>2014</b> ,		7
167	Rateless Multiple Access over Erasure Channel <b>2010</b> ,		7
166	Adaptive subcarrier and bit allocation in OFDMA systems supporting heterogeneous services. <i>Wireless Personal Communications</i> , <b>2007</b> , 43, 1057-1070	1.9	7
165	Joint Activity Detection and Channel Estimation for mmW/THz Wideband Massive Access <b>2020</b> ,		7
164	Feature-Aided Adaptive-Tuning Deep Learning for Massive Device Detection. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 1899-1914	14.2	7
163	. <i>IEEE Transactions on Multimedia</i> , <b>2021</b> , 1-1	6.6	7
162	Hybrid Limited Feedback in 5G Cellular Systems With Massive MIMO. <i>IEEE Systems Journal</i> , <b>2017</b> , 11, 50-61	4.3	6
161	Improving the throughput of wireless powered dual-hop systems with full duplex relaying <b>2015</b> ,		6
160	User Behavior-Aware Scheduling Based on Time-Frequency Resource Conversion. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 8429-8444	6.8	6
159	Mobile conductance in sparse networks and mobility-connectivity tradeoff <b>2014</b> ,		6
158	On the transmission opportunity and TCP throughput in cognitive radio networks. <i>International Journal of Communication Systems</i> , <b>2014</b> , 27, 303-321	1.7	6
157	Optimal Resource Allocation for Cognitive Radio Networks with Imperfect Spectrum Sensing <b>2010</b> ,		6
156	System synchronization and channel estimation analysis for IEEE 802.16e OFDMA downlink system. <i>International Journal of Communication Systems</i> , <b>2009</b> , 22, 375-398	1.7	6
155	Opportunistic Spectrum Access in Cognitive Radio System Employing Cooperative Spectrum Sensing <b>2009</b> ,		6
154	A POMDP-based optimal spectrum sensing and access scheme for cognitive radio networks with hardware limitation <b>2012</b> ,		6
153	Partial Channel State Information Based Cooperative Relaying and Partner Selection <b>2007</b> ,		6
152	Communication-Efficient Federated Learning With Binary Neural Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 1-1	14.2	6

151	User Selection in Reconfigurable Intelligent Surface Assisted Communication Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 1353-1357	3.8	6
150	Load scheduling for distributed edge computing: A communication-computation tradeoff. <i>Peer-to-Peer Networking and Applications</i> , <b>2019</b> , 12, 1418-1432	3.1	6
149	Delay-Optimal Random Access for Large-Scale Energy Harvesting Networks <b>2018</b> ,		5
148	Multipair full-duplex massive MIMO relaying with low-resolution ADCs and imperfect CSI <b>2017</b> ,		5
147	Content Caching Clustering Based on Piecewise Interest Similarity <b>2017</b> ,		5
146	Epidemic source tracing on social contact networks <b>2015</b> ,		5
145	Low Cost Pre-Coder Design for MIMO AF Two-Way Relay Channel. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1369-1372	3.2	5
144	Capacity scaling of relay networks with successive relaying <b>2015</b> ,		5
143	Differential Modulation Exploiting the Spatial-Temporal Correlation of Wireless Channels With Moving Antenna Array. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 4990-5001	6.9	5
142	Random access for a cognitive radio transmitter with RF energy harvesting <b>2014</b> ,		5
141	Uplink Scheduling for Cognitive Radio Cellular Network with Primary User's QoS Protection <b>2010</b> ,		5
140	A Novel Resource Allocation Algorithm for Real-time Services in Multiuser OFDM Systems		5
139	Subcarrier and bit allocation for OFDMA systems with proportional fairness <b>2006</b> ,		5
138	Deep Learning based Channel Estimation for Massive MIMO with Hybrid Transceivers. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	5
137	Angle-Domain Intelligent Reflecting Surface Systems: Design and Analysis. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 4202-4215	6.9	5
136	Content caching at sleeping-enabled base stations in heterogeneous networks <b>2016</b> ,		5
135	A Low Complexity Encoding Algorithm for Systematic Polar Codes. <i>IEEE Communications Letters</i> , <b>2016</b> , 1-1	3.8	5
134	An Attention-Aided Deep Learning Framework for Massive MIMO Channel Estimation. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	5

133	On the Cooperation for Content Caching from a Coalitional Game Perspective <b>2018</b> ,		5
132	Ambient Backscatter Communication Systems with Multi-Antenna Reader <b>2018</b> ,		5
131	Rateless Multiple Access: Asymptotic Throughput Analysis and Improvement With Spatial Coupling. <i>IEEE Access</i> , <b>2018</b> , 6, 63200-63213	3.5	5
130	Clustered Popularity Prediction for Content Caching <b>2019</b> ,		4
129	Relay Selection for Multi-Channel Cooperative Multicast: Lexicographic MaxMin Optimization. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 959-971	6.9	4
128	Computational resource constrained multi-cell joint processing in cloud radio access networks <b>2017</b> ,		4
127	On the design of massive access <b>2017</b> ,		4
126	Universal filtered multi-carrier transmission with active interference cancellation <b>2015</b> ,		4
125	Power Allocation for Relay-Assisted TDD Cellular System with Dynamic Frequency Reuse. <i>IEEE Transactions on Wireless Communications</i> , <b>2012</b> , 11, 2424-2435	9.6	4
124	Belief propagation with gradual edge removal for Raptor codes over AWGN channel <b>2013</b> ,		4
123	Accumulate rateless codes and their performances over additive white Gaussian noise channel. <i>IET Communications</i> , <b>2013</b> , 7, 372-381	1.3	4
122	Rateless multiple access over noisy channel <b>2010</b> ,		4
121	Initial link establishment in Cognitive Radio Networks without common control channel <b>2011</b> ,		4
120	Distributed compressed wideband sensing in Cognitive Radio Sensor Networks <b>2011</b> ,		4
119	A rollout-based joint spectrum sensing and access policy for cognitive radio networks with hardware limitations <b>2012</b> ,		4
118	A Study on Cell Search Algorithms for IEEE 802.16e OFDMA Systems <b>2007</b> ,		4
117	Robust Convergence of Energy and Computation for 5G Cellular Internet of Things <b>2019</b> ,		4
116	Asynchronous Federated Learning over Wireless Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	4

115	Opportunistic wireless information and energy transfer for sustainable cooperative relaying <b>2015</b> ,		3
114	Bandwidth-Cache Pricing for Caching-Assisted Video Streaming Delivery <b>2020</b> ,		3
113	Optimal Detection for Ambient Backscatter Communication Systems With Multiantenna Reader Under Complex Gaussian Illuminator. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 11371-11383	10.7	3
112	Heterogeneous Spectrum Aggregation: Coexistence From a Queue Stability Perspective. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 2471-2485	9.6	3
111	Impact of mobility on the sum rate of an NB-OFDMA based mobile IoT networks <b>2016</b> ,		3
110	Mobile Conductance in Sparse Networks and Mobility-Connectivity Tradeoff. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 2954-2965	9.6	3
109	Distance-based energy-efficient opportunistic forwarding in mobile delay tolerant networks <b>2014</b> ,		3
108	Multi-Carrier Rateless Multiple Access: A Novel Protocol for Dynamic Massive Access <b>2015</b> ,		3
107	A sequential antenna-hopping scheme for high mobility MIMO communications <b>2015</b> ,		3
106	Mobile conductance and gossip-based information spreading in mobile networks <b>2013</b> ,		3
105	A primary traffic aware opportunistic spectrum sensing for cognitive radio networks <b>2011</b> ,		3
104	Cognitive Radio Transmission Strategies Exploiting the Primary-Link Adaptivity. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 3805-3813	6.8	3
103	NPS: Non-periodic sensing for opportunistic spectrum access <b>2010</b> ,		3
102	Carrier Sensing with Self-Cancelation of Inter-Carrier Emission in Cognitive OFDMA System <b>2011</b> ,		3
101	Dynamic Frequency Reuse Scheme for Wireless Multi-Hop Relay Networks <b>2009</b> ,		3
100	A wideband multi-resolution spectrum sensing method based on belief propagation <b>2009</b> ,		3
99	Non-coded rateless multiple access <b>2012</b> ,		3
98	Adaptive Power Allocation for Cooperative Relaying System in Fading Wireless Channel <b>2007</b> ,		3

97	Cross-Layer Performance Analysis of Two-Hop Wireless Links with Adaptive Modulation <b>2006,</b>		3
96	Weighted Sum-Rate of Intelligent Reflecting Surface Aided Multiuser Downlink Transmission with Statistical CSI. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	3
95	Concentrative Intelligent Reflecting Surface Aided Computational Imaging via Fast Block Sparse Bayesian Learning <b>2021,</b>		3
94	Asynchronous Federated Learning over Wireless Communication Networks <b>2021,</b>		3
93	Delay-Optimal Computation Offloading for Computation-Constrained Mobile Edge Networks <b>2018,</b>		3
92	Computational Resource Constrained Multi-Cell Joint Processing in Fog Radio Access Networks <b>2018,</b>		3
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88	Robust Integration of Computation and Communication in B5G Cellular Internet of Things <b>2020,</b>		2
87	Angle-Domain MmWave MIMO NOMA Systems: Analysis and Design <b>2019,</b>		2
86	Rateless Coded Uplink Transmission Design for Multi-User C-RAN. <i>Sensors</i> , <b>2019</b> , 19,	3.8	2
85	Protocol Design and Analysis for Cellular Internet of Things with Massive Access <b>2019,</b>		2
84	Low-Latency Adaptive Ordered Statistic Decoding of Polar Codes. <i>IEEE Access</i> , <b>2019</b> , 7, 134226-134235	3.5	2
83	On the SC decoder for any polar code of length $N = \ln$ <b>2014,</b>		2
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80	Performance comparison of different transmission schemes in uplink massive MIMO systems with dual-antenna users <b>2015,</b>		2

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73	Angle random forwarding (AnRaF) for wireless sensor networks: performances and realization. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 9, 988-1004	1.9	2
72	Dual QoS driven power allocation in MIMO cognitive network with limited feedback <b>2011</b> ,		2
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70	Constructing linear codes with good joint spectra <b>2008</b> ,		2
69	Optimal Bit and Power Allocation in Broadband Cognitive Radio System. <i>IEEE Vehicular Technology Conference</i> , <b>2008</b> ,	0.1	2
68	A Practical Cluster-Based Channel Estimation Method for IEEE 802.16e <b>2006</b> ,		2
67	Joint Allocation of Bandwidth and Power for Heterogeneous Services <b>2006</b> ,		2
66	An Improved Adaptive Decision Scheme for Vertical Handoff in Heterogeneous Wireless Networks <b>2006</b> ,		2
65	All digital tracking loop for OFDM symbol timing <b>2003</b> ,		2
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58	Robust Beamforming Design for SWIPT in Cellular Internet of Things <b>2019</b> ,		2
57	Robust Design for Massive Access in B5G Cellular Internet of Things <b>2019</b> ,		2
56	Successive Interference Cancellation Based Non-Orthogonal Opportunistic Beamforming <b>2018</b> ,		2
55	Delay Optimal Random Access With Heterogeneous Device Capabilities in Energy Harvesting Networks Using Mean Field Game. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 5543-5557	9.6	2
54	Distributed Successive Measurement Selection Based on Online Sparsity Inference <b>2019</b> ,		1
53	Queue-Stable Dynamic Compression and Transmission with Mobile Edge Computing <b>2019</b> ,		1
52	Distributed ADMM with Synergetic Communication and Computation <b>2020</b> ,		1
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47	Differential space-time coding for cooperative relay system over frequency-selective channels <b>2014</b> ,		1
46	Adaptive vector OFDM system for transmission over doubly selective fading channels <b>2014</b> ,		1
45	Packet spreading without relaying in mobile wireless networks <b>2012</b> ,		1
44	Rateless codes with unequal error protection based on improved weighted selection <b>2013</b> ,		1

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42	Distributed Spectrum Access in Cognitive Radio Network Employing Rateless Codes <b>2010</b> ,		1
41	Multi-channel Cooperative Spectrum Sensing Based on Belief Propagation Algorithm <b>2009</b> ,		1
40	Joint resource allocation in multiple channels, single non-regenerative relay system <b>2009</b> ,		1
39	Distributed spectrum access algorithm for Cognitive Wireless Network with QoS protection of active users <b>2009</b> ,		1
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37	Minimizing the Communication Overhead of Iterative Scheduling Algorithms for Input-Queued Switches <b>2011</b> ,		1
36	Distributed power control with gradual removal in cognitive radio cellular network <b>2009</b> ,		1
35	WLC27-3: An Efficient Resource Allocation Algorithm for OFDMA Systems with Multiple Services. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		1
34	Unsources Random Massive Access with Beam-Space Tree Decoding. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1	14.2	1
33	Online Deep Neural Network for Optimization in Wireless Communications. <i>IEEE Wireless Communications Letters</i> , <b>2022</b> , 1-1	5.9	1
32	Distributed Computational Imaging with Reconfigurable Intelligent Surface <b>2020</b> ,		1
31	An Angle Domain Design Framework for Intelligent Reflecting Surface Systems <b>2020</b> ,		1
30	An Efficient Calibration Algorithm for IRS-Aided mmWave Systems with Hardware Impairments. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1	3.8	1
29	NOMA based VR Video Transmissions Exploiting User Behavioral Coherence <b>2020</b> ,		1
28	Multi-Slot Distributed Measurement Selection: A Sparsity Learning Approach. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2020</b> , 6, 684-698	2.8	1
27	Incremental Random Massive Access Exploiting Nested Reed-Muller Sequences <b>2020</b> ,		1
26	Over-the-air Learning Rate Optimization for Federated Learning <b>2021</b> ,		1



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24	A Graph-Neural-Network Decoder with MLP-based Processing Cells for Polar Codes <b>2019</b> ,		1
23	BP List Decoding of Polar Codes with Adaptive Bit Splitting over Critical Set <b>2019</b> ,		1
22	Data Recovery from Sub-Nyquist Sampled Signals: Fundamental Limit and Detection Algorithm <b>2019</b> ,		1
21	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2296-2313	3.7	1
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19	Concise Convolutional Neural Network for Crowd Counting <b>2018</b> ,		1
18	Polar Coded Adaptive Data Transmission in an Indoor mmWave Scenario <b>2018</b> ,		1
17	Distributed ADMM With Synergetic Communication and Computation. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 501-517	6.9	1
16	Reinforcement Learning-based Mobile Edge Computing and Transmission Scheduling for Video Surveillance. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2021</b> , 1-1	4.1	1
15	Exploiting Simultaneous Low-Rank and Sparsity in Delay-Angular Domain for Millimeter-Wave/Terahertz Wideband Massive Access. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	1
14	On the Design of Multiple-Antenna Non-Orthogonal Multiple Access <b>2019</b> , 229-256		0
13	An efficient all digital VSB modulator for HDTV terrestrial broadcasting. <i>IEEE Transactions on Consumer Electronics</i> , <b>2000</b> , 46, 270-274	4.8	0
12	Multi-Line Selective Optical Phased Array With Improved Uniformity of Radiated Beam Patterns. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 34, 133-136	2.2	0
11	High-Speed and Low-Power Silicon Optical Phased Array Based on The Carrier-Depletion Mechanism. <i>IEEE Photonics Technology Letters</i> , <b>2022</b> , 1-1	2.2	0
10	Unsources Massive Random Access Scheme Exploiting Reed-Muller Sequences. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	0
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8	Delay-Optimal Closed-Form Scheduling for Multi-Destination Computation Offloading. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1904-1908	5.9	0

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4	Symmetric information rate of CPM and optimal detector design. <i>Journal of Electronics</i> , <b>2008</b> , 25, 294-299		
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